**Thrills & Chills**

Chapter 3

Activity 4  
**Your “At Rest” Weight**

Goals…

* Distinguish between mass and weight
* Calculate weight in Newton’s
* Measure the effect of weight on the stretch of a spring
* Use a spring to create a scale and explain how Newton’s 2nd law relates
* Calculate spring forces using Hooke’s Law

For You To Read Key Points To Learn

* Weight - the Click here to enter text. force exerted on a mass as a result of Click here to enter text. (N)
* Hooke’s Law – the Click here to enter text. of stretch or compression of a spring is Click here to enter text. proportional to the Click here to enter text. applied to it
* F = -kx or F = kx
* - sign shows that the pull by the spring is Click here to enter text. to the direction it is stretched or compressed
* Slope = rise/run
* Slope = k
* Steeper slope = Click here to enter text.
* Gradual slope = Click here to enter text.

What did you learn?

* When at Click here to enter text. on a roller coaster – you are Click here to enter text. to your Click here to enter text.
* When a roller coaster starts Click here to enter text.-, a Click here to enter text. will read many Click here to enter text. values
* Click here to enter text.are caused as your Click here to enter text. appears to Click here to enter text. at the Click here to enter text. and Click here to enter text. of the roller coaster